

What is claimed is:

1        1. A text messaging system made up of a plurality of  
2 information terminals provided with communications means,  
3 and servers connected to the information terminals via  
4 communications lines responsive to the communications means,  
5 the text messaging system comprising:

6        transmission means provided in the information  
7 terminals for transmitting to the servers text messages  
8 addressed to other of the information terminals;

9        reception means provided in the information terminals  
10 for receiving from the servers text messages from other of  
11 the information terminals;

12       status detection means provided in the information  
13 terminals for detecting and reporting to the servers  
14 operational status including at least status of connection  
15 with the communications lines;

16       reception means provided in the servers for receiving  
17 text messages from the information terminals;

18       transmission means provided in the servers for  
19 transmitting text messages received from ones of the  
20 information terminals to others of the information  
21 terminals;

22       status administration means provided in the servers for  
23 holding per user information-terminal operational status

1 reported from said status detection means; and  
2 decision means provided in the servers for deciding  
3 transmission modes for the text messages according to the  
4 information terminal operational status.

1 2. A text messaging system made up of at least one  
2 mobile terminal and at least one information terminal  
3 respectively provided with communication means, and at least  
4 one server connected to the at least one mobile terminal and  
5 to the at least one information terminal via at least one  
6 communications line responsive to the communications means,  
7 the text messaging system comprising:

8 transmission means provided in the at least one  
9 information terminal for transmitting to the at least one  
10 server text messages addressed to the at least one mobile  
11 terminal, or to at least one other information terminal  
12 wherein the system includes a plurality thereof;

13 reception means provided in the at least one  
14 information terminal for receiving from the at least one  
15 server text messages from the at least one mobile terminal,  
16 or from at least one other information terminal wherein the  
17 system includes a plurality thereof;

18 status detection means provided in the at least one  
19 information terminal for detecting and reporting to the at  
20 least one server operational status including at least  
21 status of connection with the at least one communications

22 line;

23 reception means provided in the at least one server for  
24 receiving text messages from the at least one mobile  
25 terminal or the at least one information terminal;

26 transmission means provided in the at least one server  
27 for transmitting to the at least one information terminal  
28 text messages received from the at least one mobile  
29 terminal, and transmitting to the at least one mobile  
30 terminal text messages received from the at least one  
31 information terminal, or transmitting text messages received  
32 from the at least one mobile terminal or the at least one  
33 information terminal to at least one other mobile terminal  
34 or to at least one other information terminal wherein the  
35 system includes a plurality of either;

36 status administration means provided in the at least  
37 one server for holding per user information-terminal  
38 operational status reported from said status detection  
39 means; and

40 decision means provided in the at least one server for  
41 deciding transmission modes for the text messages according  
42 to the information terminal operational status.

1 3. A text messaging system according to claim 2,  
2 wherein:

3 said status detection means further detects and reports  
4 to the at least one server whether the at least one

5 information terminal is being used; and

6 said decision means if the at least one information  
7 terminal is being used decides the at least one information  
8 terminal to be a transmission destination for text messages.

1 4. A text messaging system according to claim 2, the at  
2 least one information terminal further being provided with  
3 service detection means for detecting and for reporting to  
4 the at least one server network-application operational  
5 status in the at least one information terminal; wherein:

6 said status administration means holds the reported  
7 network-application operational status; and

8 said decision means, wherein the network application is  
9 operable on the at least one server, decides to transmit  
10 text messages using the network application if the network  
11 application is running on the at least one information  
12 terminal.

1 5. A text messaging system according to claim 2,  
2 wherein said transmission means is enabled to notify the at  
3 least one server that a text message has been read, further  
4 comprising:

5 reporting administration means provided in the at least  
6 one server for saving text messages transmitted to the at  
7 least one information terminal, and, wherein not notified to  
8 the effect that a text message has been read, for forwarding  
9 the text message to the at least one mobile terminal.

1           6. A text messaging system according to claim 5,  
2   wherein said reporting administration means forwards to the  
3   at least one mobile terminal text messages transmitted to  
4   the at least one information terminal in response to change  
5   in operational status of the at least one information  
6   terminal.

1           7. A text messaging system according to claim 5,  
2   wherein if a text message transmitted to the at least one  
3   information terminal is not read within a predetermined time  
4   period, said reporting administration means forwards the  
5   text message to the at least one mobile terminal.

1           8. A text messaging system according to claim 5,  
2   wherein said reporting administration means in predetermined  
3   instances reports to text message send sources that their  
4   text messages have been sent to the at least one mobile  
5   terminal.

1           9. A text messaging system according to claim 5,  
2   wherein if said reporting administration means cannot send a  
3   text message to the at least one mobile terminal, said  
4   reporting administration means stores the text message and  
5   reports to the text message send source that its text  
6   message has been stored.

1           10. A text messaging system according to claim 2,  
2   wherein:

3           said status detection means reports to the at least one

4 server text message senders' contact phone numbers;

5 said status administration means holds the reported  
6 phone numbers; and

7 wherein a text message is sent from the at least one  
8 information terminal to the at least one mobile terminal, if  
9 the senders' contact phone number has been set, said  
10 decision means adds the phone number to and transmits the  
11 text message.

1 11. A text messaging system according to claim 2,  
2 further comprising a proxy information terminal connected to  
3 the at least one communications line, wherein said proxy  
4 information terminal is provided with:

5 reception means for receiving from the at least one  
6 server text messages from the at least one mobile terminal;

7 information acquisition means for obtaining in  
8 accordance with the received text messages operational  
9 status of at least one other information terminal wherein  
10 the system includes a plurality thereof;

11 transmission means for transmitting the obtained  
12 operational status as a text message to the at least one  
13 mobile terminal; and

14 information setting means for setting and reporting to  
15 the at least one server operational status of the at least  
16 one other information terminal in accordance with the  
17 received text messages.

1        12. A text messaging system made up of at least one  
2 mobile terminal and at least one information terminal  
3 respectively provided with communication means, a first  
4 server connected to the at least one information terminal  
5 via at least one communications line responsive to the  
6 communications means, and a second server connected to the  
7 at least one mobile terminal and to the at least one  
8 information terminal via the at least one communications  
9 line, the text messaging system comprising:

10        transmission means provided in the at least one  
11 information terminal for transmitting to the second server  
12 text messages addressed to the at least one mobile terminal,  
13 or to at least one other information terminal wherein the  
14 system includes a plurality thereof;

15        reception means provided in the at least one  
16 information terminal for receiving from the second server  
17 text messages from the at least one mobile terminal, or from  
18 at least one other information terminal wherein the system  
19 includes a plurality thereof;

20        status detection means provided in the at least one  
21 information terminal for detecting and reporting to the  
22 first server operational status including at least status of  
23 connection with the at least one communications line;

24        status administration means provided in the first  
25 server for gathering and holding per user information-

26 terminal operational status from the at least one  
27 information terminal;

28 reception means provided in the second server for  
29 receiving text messages from the at least one mobile  
30 terminal or the at least one information terminal;

31 transmission means provided in the second server for  
32 transmitting text messages received from the at least one  
33 mobile terminal or the at least one information terminal to  
34 at least one other mobile terminal or to at least one other  
35 information terminal wherein the system includes a plurality  
36 of either; and

37 decision means provided in the second server for  
38 obtaining from the first server operational status of the at  
39 least one information terminal for deciding text message  
40 transmission mode according to the obtained operational  
41 status.

1 13. A text messaging system according to claim 12, the  
2 at least one information terminal is enabled to notify the  
3 second server that a text message has been read, further  
4 comprising:

5 reporting administration means provided in the second  
6 server for saving text messages transmitted to the at least  
7 one information terminal, and, wherein not notified to the  
8 effect that a text message has been read, for forwarding the  
9 text message to the at least one information terminal.



1       14. In an information terminal provided with  
2       communication means for transmitting and receiving text  
3       messages among mobile terminals or other information  
4       terminals via communication lines and servers responsive to  
5       said communication means, a text messaging device  
6       comprising:

7       transmission means for transmitting to the servers text  
8       messages addressed to the mobile terminals or to the other  
9       information terminals;

10      reception means for receiving from the servers text  
11      messages from the mobile terminals or from the other  
12      information terminals; and

13      status detection means for detecting and reporting to  
14      the servers operational status including at least status of  
15      connection with the communications lines.

1       15. A text-messaging server connected to at least one  
2       mobile terminal and at least one information terminal  
3       respectively provided with communication means, via at least  
4       one communications line responsive to the communications  
5       means, the server comprising:

6       reception means for receiving text messages from the at  
7       least one mobile terminal or the at least one information  
8       terminal;

9       transmission means for transmitting text messages  
10      received from the at least one mobile terminal or the at

11 least one information terminal to at least one other mobile  
12 terminal or to at least one other information terminal  
13 wherein the server is connected to a plurality of either;  
14 status administration means for receiving and holding  
15 per user operational status from the at least one  
16 information terminal; and  
17 decision means for deciding transmission modes for the  
18 text messages according to the information terminal  
19 operational status.

1 16. A computer-readable recording medium on which is  
2 recorded a text messaging program utilized in an information  
3 terminal provided with communication means for transmitting  
4 and receiving text messages among mobile terminals or other  
5 information terminals via communication lines and servers  
6 responsive to said communication means, the computer-  
7 readable recording medium on which is recorded the text  
8 messaging program for executing:

9 A: a transmission step for transmitting to the servers  
10 text messages addressed to the mobile terminals or to the  
11 other information terminals;

12 B: a reception step for receiving from the servers text  
13 messages from the mobile terminals or from the other  
14 information terminals; and

15 C: a status detection step for detecting and reporting  
16 to the servers operational status including at least status

17 of connection with the communications lines.

1 17. A computer-readable recording medium on which is  
2 stored a text messaging administration program utilized in a  
3 server connected to at least one mobile terminal and at  
4 least one information terminal respectively provided with  
5 communication means, via at least one communications line  
6 responsive to the communications means, the computer-  
7 readable recording medium on which is recorded the text  
8 messaging administration program for executing:

9 A: reception step for receiving text messages from the  
10 at least one mobile terminal or the at least one information  
11 terminal;

12 B: a transmission step for transmitting received text  
13 messages to at least one other mobile terminal or to at  
14 least one other information terminal wherein the system  
15 includes a plurality of either;

16 C: a status administration step for obtaining and  
17 holding per user operational status of the at least one  
18 information terminal; and

19 D: a decision step for deciding text message  
20 transmission mode according to the operational status of the  
21 at least one information terminal.

1 18. A text messaging method utilized in a server  
2 connected to at least one mobile terminal and at least one  
3 information terminal respectively provided with

4 communication means, via at least one communications line  
5 responsive to the communications means, the text messaging  
6 method:

7 transmitting and receiving text messages by way of the  
8 server between the at least one mobile terminal and the at  
9 least one information terminal, or between the at least one  
10 mobile terminal and the at least one other mobile terminal  
11 wherein the system includes a plurality thereof, or between  
12 the at least one information terminal and at least one other  
13 information terminal wherein the system includes a plurality  
14 thereof;

15 detecting and reporting to the server operational  
16 status of the at least one information terminal including at  
17 least status of connection with the at least one  
18 communications line;

19 holding per user in the server the operational status  
20 of the at least one information terminal; and

21 by means of the server deciding transmission mode for  
22 the text messages according to the operational status of the  
23 at least one information terminal.

1 19. A text message transmission and reception method  
2 utilized in an information terminal provided with  
3 communication means for transmitting and receiving text  
4 messages among mobile terminals or other information  
5 terminals via communication lines and servers responsive to

6 said communication means, the text message transmission and  
7 reception method:

8 transmitting to the servers text messages addressed to  
9 the mobile terminals or to the other information terminals;

10 receiving from the servers text messages from the  
11 mobile terminals or from the other information terminals;

12 and

13 detecting and reporting to the servers operational  
14 status including at least status of connection with the  
15 communications lines.

1 20. A text-messaging administration method for a server  
2 connected to at least one mobile terminal and at least one  
3 information terminal respectively provided with

4 communication means, via at least one communications line  
5 responsive to the communications means, the text-messaging  
6 administration method:

7 receiving from the at least one mobile terminal or the  
8 at least one information terminal text messages addressed to  
9 the other at least one mobile terminal or at least one

10 information terminal, or addressed to at least one other  
11 mobile terminal or to at least one other information

12 terminal wherein the system includes a plurality of either;

13 transmitting the received text messages to the other at  
14 least one mobile terminal or at least one information  
15 terminal, or addressed to at least one other mobile terminal

16 or to at least one other information terminal wherein the  
17 system includes a plurality of either;

18 gathering and holding per user operational status of  
19 the at least one information terminal including at least  
20 status of connection with the at least one communications  
21 line; and

22 deciding transmission mode for the text messages  
23 according to the operational status of the at least one  
24 information terminal.